

ABSTRACT OF THE DISCLOSURE

A magnetic recording head comprises a write pole having a tip adjacent to an air bearing surface of the recording head, a return pole magnetically coupled to the write pole, a conductor positioned adjacent to at least one edge of the write pole at the air bearing surface for carrying current to produce a magnetic field that saturates at least a portion of the write pole and augments a write field, a first conductive heat sink connected to a first end of the conductor, and a second conductive heat sink connected to a second end of the conductor. Disc drives that include the recording head are also included.